

ASSIGNMENT 4

Textbook Assignment: "Mix Design: Concrete and asphalt." Pages 17-1 through 17-22. "Soil Stabilization." Pages 18-1 through 18-9.

Learning Objective: Identify the methods and procedures used in the design of concrete mixtures.

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| <p>4-1. Concrete mixture proportions are determined by which of the following factors?</p> <ol style="list-style-type: none">1. Anticipated weather conditions at the time of placement2. Anticipated weather conditions during the entire curing process3. Size and shape of the structure4. Quantity to be placed <p>4-2. What factor determines the strength and durability of the concrete?</p> <ol style="list-style-type: none">1. Volume of water2. Volume of cement3. Water-cement ratio4. Compressive strength <p>4-3. When considering the exposure conditions and strength requirements using tables 17-1 and 17-2, what water-cement ratio should you use?</p> <ol style="list-style-type: none">1. Higher ratio2. Lower ratio3. Average of the appropriate ratios4. Laboratory obtained ratio <p>4-4. A concrete wall is 10 inches thick. What is the maximum size of the coarse aggregate that can be used in the mix?</p> <ol style="list-style-type: none">1. 2.0 in2. 3.5 in3. 5.0 in4. 7.5 in <p>4-5. Fine aggregate is used in a mix for which of the following purposes?</p> <ol style="list-style-type: none">1. To increase the strength of the mix2. To absorb excess water3. To increase the workability of the mix4. To accelerate the hydration process | <p>4-6. Regardless of weather conditions, entrained air should always be used in concrete for which of the following purposes?</p> <ol style="list-style-type: none">1. Precast2. Paving3. Drainage4. Foundation <p>4-7. Concrete that is exposed to moisture or free water before freezing is classified as what type of exposure?</p> <ol style="list-style-type: none">1. Mild2. Moderate3. Severe4. Harsh <p>4-8. What method measures the consistency of the concrete mix?</p> <ol style="list-style-type: none">1. Trial batch2. Workability test3. Proportions and ratio4. Slump test <p>4-9. The size of your trial batch should be determined by which of the following factors?</p> <ol style="list-style-type: none">1. Size of the placement2. Equipment available for placement3. Number of test samples required4. Size of the coarse aggregate <p>4-10. The aggregates for your test batch should be in what condition?</p> <ol style="list-style-type: none">1. Oven-dried2. Saturated, surface-dry3. Saturated4. Super saturated <p>4-11. To determine the amount of mixing water needed for a trial batch, you must determine which of the following information?</p> <ol style="list-style-type: none">1. Amount of cement required2. Water-cement ratio3. Desired slump4. All of the above |
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- 4-12. Your coarse aggregate has a maximum size of 2 inches and a fineness modulus of 3.00. What quantity of coarse aggregate is required for a 1-cubic-yard trial batch?
1. 1,944 lb
 2. 2,000 lb
 3. 19.44 cu ft
 4. 20.00 cu ft
- 4-13. You are preparing a 1-cubic-foot trial batch with a water-cement ratio of 0.50. The quantity of cement to be used is 23.5 pounds. What is the required quantity of water?
1. 23.50 lb
 2. 11.75 lb
 3. 0.50 cu ft
 4. 0.25 cu ft
- 4-14. You mix a 1-cubic-yard trial batch and the slump is 2 inches more than the desired slump. What action must you take?
1. Add 10 gal of water
 2. Decrease your water by 10 lb
 3. Decrease your water by 20 lb
 4. Add more cement
- 4-15. To determine the absolute volume of coarse aggregate, which of the following information do you require?
1. Maximum aggregate size
 2. Specific gravity
 3. Dry-rodded weight
 4. All of the above
- 4-16. When the fineness modulus is not in the tables, what must you do to determine the volume for the coarse aggregate?
1. Use the value that is higher than the aggregate
 2. Use the value that is lower than the aggregate
 3. Use the average value from the tables
 4. Interpolate to obtain the value
- 4-17. How do you determine the absolute volume of fine aggregate?
1. $(\text{Percents of fine aggregate}) \times (\text{total cement})$
 2. $27 - (\text{Total absolute volume of all other materials})$
 3. $(\text{Absolute volume of coarse aggregate}) - (\text{absolute volume of concrete})$
 4. $(\text{Total volume of all material}) \times (\text{specific gravity of fines}) \times 62.4$
- 4-18. What is the percentage of free-surface moisture in sand that is squeezed and clings together but contains no excess water?
1. 0% to 2%
 2. 2% to 4%
 3. 5% to 8%
 4. 8% to 12%
- 4-19. What is the maximum FSM of gravel?
1. 1%
 2. 2%
 3. 3%
 4. 4%
- 4-20. When you are batching the concrete mix by weight, how do you account for the weight contributed by the FSM?
1. Increase the total weight for the coarse aggregate only by the FSM
 2. Decrease the total weight for the fine aggregate only by the FSM
 3. Increase the total weight for the aggregates per cubic yard by the FSM
 4. Decrease the total weight for the aggregates by the FSM
- 4-21. What adjustment, if any, should be made to water requirements to account for FSM of the aggregates?
1. Increase the amount of water by the FSM
 2. Decrease the amount of water by the FSM
 3. Decrease the amount of water by the FSM of the fine aggregates only
 4. None
- 4-22. The FA has a 4 percent FSM and the CA has a 2 percent FSM. The original mix design called for the FA to be 1,050 pounds per cubic yard. What is the adjusted weight of the FA for the actual concrete mix?
1. 1,008 lb/cu yd
 2. 1,050 lb/cu yd
 3. 1,092 lb/cu yd
 4. 1,113 lb/cu yd
- 4-23. You should monitor the moisture content of the aggregates and make appropriate adjustments under which of the following conditions?
1. After periods of dryness
 2. After rains
 3. After new material is delivered
 4. All of the above

4-24. What waste factor, if any, should be applied to a concrete estimate of 220 cubic yards?

1. 5%
2. 10%
3. 15%
4. None

4-25. Determine the total number of sacks of cement required for a design project that uses a total volume of 180 cubic yard of concrete? (Use 6.5 sacks per cubic yard.)

1. 1,000
2. 1,170
3. 1,240
4. 1,287

Learning Objective: Identify methods and procedures used in the design of bituminous mixtures.

4-26. The objective of bituminous mix design is to determine which of the following factors?

1. The most durable mix possible
2. The most workable mix
3. The most economical blend that will meet all specified requirements
4. The most stable mix with the ability to withstand all possible traffic loads

4-27. The aggregate blend must achieve a specified gradation. Your trial batches are based on selected percentages from what source?

1. Project specifications
2. TM 5-337
3. NAVFAC MO-330
4. U. S. Army Corps of Engineers Pavement Design Manual

4-28. The specification limits for the gradation blend are established by what authority or publication?

1. By project specifications
2. By TM 5-337
3. By NAVFAC MO-330
4. U. S. Army Corps of Engineers

4-29. The final bitumen mix design is affected by all of the following variables except the

1. use of mix
2. minimum aggregate size
3. binder
4. loading

4-30. Which of the following data is required to prepare the test specimens?

1. Flow
2. Percentage of voids
3. Specific gravity of the aggregates
4. Total mix unit weight

IN ANSWERING QUESTION 4-31, REFER TO TABLE 17-7 IN YOUR TEXTBOOK.

4-31. What flow rate is acceptable for a surface course that serves as a high-pressure tire pavement?

1. 16 or less
2. 20 or less
3. 2% - 4%
4. 5% - 7%

4-32. When verifying the test results with the criteria for a particular property, you should use the OAC from that particular test only.

1. True
2. False

4-33. The Marshall test method requires no special modification until the 1-inch plus aggregate exceeds what percentage of the total aggregate?

1. 5%
2. 7%
3. 10%
4. 12%

4-34. You have determined the optimum bitumen content to be 5.5 percent. The aggregate will be what percentage of the mix?

1. 100.0%
2. 97.8%
3. 94.5%
4. 89.0%

4-35. When you perform the tests for cold-mix asphalts, what is the maximum moisture content of the aggregate by weight?

1. 1%
2. 2%
3. 5%
4. 7%

Learning Objective: Identify the general methods of soil stabilization.

- 4-36. Which of the following methods is a general method used for soil stabilization?
1. Modification
 2. Additive
 3. Cementing
 4. Bituminous
- 4-37. The method of soil stabilization to be used is determined by which of the following factors?
1. Soil description
 2. Soil classification
 3. Amount of required stabilization
 4. Each of the above
- 4-38. The mechanical method of soil stabilization is accomplished by mixing what materials?
1. Soils of different gradations
 2. Cement and soil
 3. Bituminous products and soil
 4. Each of the above
- 4-39. Additives are used for what primary purpose?
1. To improve soil strength only
 2. To improve soil durability only
 3. To reduce the thickness required only
 4. To improve soil quality
- 4-40. When stabilization is achieved by cementing, the final strength depends on which of the following factors?
1. Amount of cement used
 2. Density achieved during curing
 3. Density achieved during compaction
 4. Both 2 and 3 above
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- Learning Objective: Identify types of stabilizers and the methods used for determining the type and the amount of stabilizer required.
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- 4-41. Which of the following tests must be performed before a stabilizer can be selected?
1. Moisture content
 2. Sieve analysis
 3. Specific gravity
 4. Bearing tests
- 4-42. Cement can be used with coarse-grained soils that meet what criteria?
1. At least 45% retained on a No. 4 sieve
 2. At least 45% passing a No. 4 sieve
 3. At least 45% retained on a No. 40 sieve
 4. At least 45% passing a No. 40 sieve
- 4-43. Plasticity index should meet what criteria when you use a bituminous material for soil stabilization?
1. Greater than 30
 2. Less than 30 but greater than 10
 3. Equal to 25
 4. Less than 10
- 4-44. When you choose a stabilizer additive, which of the following factors must be considered?
1. Environmental conditions
 2. Cost
 3. Type of soil quality improvement desired
 4. Each of the above
- 4-45. Plastic soil-cement is used for which of the following purposes?
1. Road repairs
 2. Erosion prevention
 3. Paving ditches
 4. Each of the above
- 4-46. When you add cement to the soil, which of the following properties increases ?
1. Plasticity
 2. Water-holding capacity
 3. All properties
 4. Bearing capacity
- 4-47. Water is used in soil-cement for what purpose?
1. For hydration of the cement
 2. To obtain maximum compaction
 3. Both 1 and 2 above
 4. To increase the weight
- 4-48. Soils used for soil-cement must be well graded to provide proper aggregate cohesion.
1. True
 2. False

- 4-49. Which of the following soils is the most desirable for soil-cement construction?
1. Silty and clayey soil that contains a relatively high percentage of clay
 2. Sandy soil that is deficient in fines
 3. Sandy and gravelly soil with more than 55% passing a No. 4 sieve
 4. Sandy and gravelly soil that contains 10% to 35% silt and clay
- 4-50. What is the first requirement for quality soil-cement?
1. Proper moisture content
 2. Adequate cement content
 3. Density of the soil
 4. Proper compacting equipment
- 4-51. When you perform laboratory tests, composite samples should not be used because they could provide misleading and inaccurate results.
1. True
 2. False
- 4-52. The required cement content for nonfrost areas is determined by which of the following tests?
1. Moisture-density
 2. Freeze-thaw
 3. Wet-dry
 4. Both 2 and 3 above
- 4-53. The wet-dry test takes approximately how long to complete?
1. 1 day
 2. 2 days
 3. 24 days
 4. 108 days
- 4-54. Your sample is classified as a gravelly soil. What is the passing criteria for this type of soil when the freeze-thaw test has been performed on the sample?
1. At least 7% weight loss
 2. Not more than 7% weight loss
 3. At least 14% weight loss
 4. Not more than 14% weight loss
- 4-55. The principle requirement of a soil-cement mixture is to withstand exposure to the weather. By meeting this requirement, another requirement is also met. What is that other requirement?
1. Strength
 2. Moisture content
 3. Plasticity
- 4-56. The use of bitumen has which of the following effects on the soil?
1. Decreases the load-bearing capacity
 2. Decreases cohesion
 3. Increases the resistant to water action
 4. Each of the above
- 4-57. In frost areas, tar is the recommended bituminous binder.
1. True
 2. False
- 4-58. When pollution control concerns exist, what type of bituminous product is recommended?
1. Asphalt cement
 2. Asphalt emulsion
 3. Tar
 4. Cutback asphalt
- 4-59. For a well-graded aggregate with little to no mineral filler, which of the following bituminous materials should you use?
1. MC-3000
 2. MC-250
 3. SS-1h
 4. SC-70

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(Refer to instructions in front of course)

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